

Table of Contents

Section 1: Executive Summary 1

Section 2: Introduction 1

 2.1 The Lake Huron Basin 1

 2.2 The Partnership 2

 2.3 The Issues 3

Section 3: Fish and Wildlife Contaminants 1

 3.1 Contaminants in Fish 1

 3.1.1 Contaminant Trends 1

 3.1.2 Fish Consumption Advisories 3

 3.2 Contaminants in Wildlife 5

 3.2.1 Fish-Eating Birds 5

 3.2.2 Other Wildlife 6

 3.3 References 8

Section 4: Aquatic Ecosystem 1

 4.1 Lake Huron Aquatic Foodweb 1

 4.2 Fishery Management Goals 1

 4.2.1 Spawning and Nursery Habitats 2

 4.2.2 Shoreline Processes 3

 4.2.3 Food Web Structure and Invasive Species 3

 4.2.4 Water Quality 3

 4.3 Invasive Species 3

 4.3.1 Sea Lamprey 4

 4.3.2 Round Goby 4

 4.3.3 Ruffe 4

 4.3.4 Spiny Water Flea 5

 4.3.5 Zebra and Quagga Mussels 5

 4.3.6 Other Aquatic Nuisance Species 5

 4.4 References 5

Section 5: Areas of Concern in Lake Huron 1

 5.1 Spanish Harbour, Ontario 1



5.2 Saginaw River/Bay, Michigan	1
5.3 Binational Area of Concern: St. Marys River	2
Section 6: Other Lake Huron Issues	1
6.1 Low Water Levels	1
6.2 Botulism	2
6.3 Cormorants	2
6.4 Coastal Wetlands	2
6.5 Bacterial Contamination	3
6.6 Blue-green Algae Blooms in Georgian Bay	3
6.7 Tributary Access for Spawning Fish	3
6.8 Aquaculture	4
6.9 Global Climate Change	4
6.10 Low-Level Contaminants	5
Section 7: Action Plan	1
7.1 Canadian Watershed	1
7.1.1 Activities Addressing Contaminants in Fish and Wildlife	1
7.1.2 Activities to Increase Understanding of Ecosystem Change, Biodiversity and the Impact of Exotic Species	1
7.1.3 Activities Addressing Fish and Wildlife Habitat/Populations	2
7.1.4 Activities Addressing Nutrient and Bacteria Issues	3
7.1.5 Activities at Areas of Concern	
7.1.5.1 Spanish Harbour	4
7.1.5.2 Severn Sound	4
7.2 U.S. Watershed	4
7.2.1 Addressing Contaminated Sediments in Areas of Concern	4
7.2.1.1 Saginaw Bay	5
7.2.1.2 St. Marys River	5
7.2.2 Partners in the Restoration of the Lake Huron Fishery	5
7.2.2.1 Lake Trout Rehabilitation	5
7.2.2.2 Lake Sturgeon Restoration	6
7.2.2.3 Monitoring the Growth and Condition of Lake Whitefish	6
7.2.2.4 Managing the Lake Huron Treaty Fishery	6

7.2.2.5 Monitoring Fish Community Health	6
7.2.3 Targeting the Saginaw Bay Aquatic Ecosystem	6
7.2.3.1 Walleye Recovery in Saginaw Bay	6
7.2.3.2 Restoring Fish Passage to Saginaw Bay Tributaries	7
7.2.4 Wildlife and Habitat Management	7
7.2.4.1 The Great Lakes Piping Plover	7
7.2.5 Understanding the Lower Food Web	7
7.2.5.1 Benthic Macroinvertebrate Community of the Open Waters of Lake Huron	7
7.2.5.2 Changes in the Lower Food Web of Saginaw Bay	7
7.2.6 Monitoring the Threat of Invasive Species	7
7.2.7 Community Planning Efforts	8
7.2.7.1 The Misery Bay Initiative, A Plan to Protect Coastal Ecosystems	8
7.2.8 Improving Data Management and Sharing	8
7.2.8.1 Lake Huron GIS	8
7.2.8.2 Bald Eagle Monitoring Database	8
7.2.8.3 Improving Coastal Wetland Restoration through a Conservation Lands Inventory	8
7.2.8.4 Ranking System for Great Lakes Islands	8
7.3 Long-Term Projects	9
7.4 References	9